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JUN 0 4 2007

Docket No.: MWS-093

Application No.: 10/725,859

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) In an electronic device, a method of accessing a library function in a shared library from a dynamic environment, comprising the steps of:

processing a header file of the library function to extract information for creating an interface to the library function; and

creating and storing the interface to the library function in the shared library.

- 2. (Original) The method of claim 1, wherein processing the header file comprises automatically defining parameters for the interface to the library function based on the header file.
- 3. (Original) The method of claim 2, wherein automatically defining parameters for the interface to the library function based on the header file comprises creating at least one data structure having selected parameters for interfacing with the library function.
- 4. (Original) The method of claim 1, wherein processing the header file comprises automatically ensuring inputs to the interface to the library function are in the form of selected data types based on the header file.
- 5. (Original) The method of claim 4, wherein automatically ensuring inputs to the interface to the library function are in the form of selected data types based on the header file comprises the interface converting data types to the selected data types for the library function.
- 6. (Currently Amended) The method of claim 1, wherein the shared library comprises one of a Dynamic Link Library (DLL) file and a file with a shared object (.so) file extension.
- 7. (Original) The method of claim 1, wherein the header file comprises a C header file.
- 8. (Original) The method of claim 1, further comprising saving the interface to the library function in the shared library in the dynamic environment in an executable form for subsequent use.

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- 9. (Original) The method of claim 1, further comprising receiving a command to call the library function.
- 10. (Original) The method of claim 1, further comprising executing the library function using the interface from the shared library.
- 11. (Original) The method of claim 1, wherein the dynamic environment comprises at least one of a text-based modeling application and a graphical-based modeling application.
- 12. (Currently Amended) In an electronic device, a method of accessing a library function in a shared library from a dynamic environment, comprising the steps of:

loading the library function from the shared library; automatically generating and storing an interface to the library function; and executing the library function using the interface from the shared library.

- 13. (Original) The method of claim 12, wherein automatically generating the interface comprises the electronic device processing a header file of the library function and extracting information for creating the interface to the library function in the shared library.
- 14. (Original) The method of claim 13, wherein processing the header file comprises automatically defining parameters for the interface to the library function based on the header file.
- 15. (Original) The method of claim 14, wherein automatically defining parameters for the interface to the library function based on the header file comprises the electronic device creating at least one data structure having selected parameters for interfacing with the library function.
- 16. (Currently Amended) The method of claim 13[[12]], wherein processing the header file comprises automatically ensuring inputs to the library function are in the form of selected data types based on the header file.

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- 17. (Original) The method of claim 16, wherein automatically ensuring inputs to the library function are in the form of a selected data type based on the header file comprises the interface converting data types to the selected data types for the library function.
- 18. (Currently Amended) The method of claim 12, wherein the shared library comprises one of a <u>Dynamic Link Library</u> (DLL) file and a <u>file with a shared object</u> (.so) file <u>extension</u>.
- 19. (Original) The method of claim 12, wherein the header file comprises a C header file.
- 20. (Original) The method of claim 12, further comprising saving the interface to the library function in the shared library in the dynamic environment in an executable form for subsequent use.
- 21. (Original) The method of claim 12, wherein the dynamic environment comprises at least one of a text-based modeling application and a graphical-based modeling application.
- 22. (Currently Amended) An electronic device computer-implemented system for calling a shared library from a dynamic environment, the system comprising:

an application providing a dynamic environment;

- a shared library accessible by the dynamic environment;
- an automated processing function for automatically extracting information for creating and storing an interface to a library function to enable execution of the library function from the shared library.
- 23. (Currently Amended) The device system of claim 22, wherein the shared library comprises one of a <u>Dynamic Link Library (DLL)</u> file and a <u>file with a shared object (.so)</u> file extension.
- 24. (Currently Amended) The-device system of claim 22, wherein the header file comprises a C header file.

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- 25. (Currently Amended) The device system of claim 22, further comprising the interface to the library function being saved in the shared library of the dynamic environment in an executable form.
- 26. (Currently Amended) The <u>device system</u> of claim 22, wherein the dynamic environment comprises at least one of a text-based modeling application and a graphical-based modeling application.
- 27. (Currently Amended) A medium for use in a modeling and execution environment on an electronic device, the medium holding instructions executable using the electronic device for performing a method of accessing a library function in a shared library from a dynamic environment, the method comprising the steps of:

processing a header file of the library function to extract information for creating an interface to the library function; and

creating and storing the interface to the library function in the shared library.

- 28. (Original) The medium of claim 27, wherein processing the header file comprises automatically defining parameters for the interface to the library function based on the header file.
- 29. (Original) The medium of claim 28, wherein automatically defining parameters for the interface to the library function based on the header file comprises creating at least one data structure having selected parameters for interfacing with the library function.
- 30. (Original) The medium of claim 27, wherein processing the header file comprises automatically ensuring inputs to the interface to the library function are in the form of selected data types based on the header file.
- 31. (Original) The medium of claim 30, wherein automatically ensuring inputs to the interface to the library function are in the form of selected data types based on the header file comprises the interface converting data types to the selected data types for the library function.

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32. (Currently Amended) The medium of claim 27, wherein the shared library comprises one of a <u>Dynamic Link Library (DLL)</u> file and a <u>file with a shared object (.so)</u> file <u>extension</u>.

- 33. (Original) The medium of claim 27, wherein the header file comprises a C header file.
- 34. (Original) The medium of claim 27, further comprising saving the interface to the library function in the shared library in the dynamic environment in an executable form for subsequent use.
- 35. (Original) The medium of claim 27, wherein the dynamic environment comprises at least one of a text-based modeling application and a graphical-based modeling application.